

5 (3)

C/002/59/025/05/003/018
F004/F002

AUTHOR: M. I. Shergina, V. P. Kuznetsova, A. S. Makhmanovych, I. V.
Kalechits

TITLE: Studies on Ultraviolet Spectra of Phenolic Compounds

PERIODICAL: Hua Tsieh Wuhs Pao, 1959, Vol 25, Nr 5, pp 236-253

ABSTRACT: This study describes the spectral effects produced by introducing a substitute into the phenolic compound (C₆). Thirty-one spectra of phenolic compounds have been investigated in order to determine the effects of such substitutions on the correlation of band positions and intensities of phenolic compounds by ultraviolet spectrophotography. The spectrophotometer is the SF-4 Model, quartz lens, equipped with hydrogen lamp, VSF-y-3 type, and air cooled. The solvent is iso-octane. The slit width is 0.35 to 1.35 mm. The cell is made of quartz, rectangular in shape, and with a size of 1 cm. The precision of the analytical method is about 1.5%. A substituted radical introduced into phenolic compound shifts the peak height of the absorption band toward the longwave region, and the effect of the substitution with a hydroxy radical is greater than with the alkyl radical. The substitution in the para position

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Studies on Ultraviolet Spectra of Phenolic Compounds (Cont.)

C/002/59/025/05/003/018

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possesses a stronger effect than that in the ortho or meta position. P-toluene or xylol mixed artificially with ortho or meta related compounds can be precisely determined by the ultraviolet spectro method. Table 1 shows the physical constants of 31 phenolic compounds employed. Table 2 shows the absorption region and peak height of the 31 phenolic compounds. Table 3 illustrates the displacement effect of the absorption band produced by introducing various substituted radicals. Table 4 shows the analytical results of determining absorption coefficient of some phenolic compounds. Table 5 shows the analytical results of artificial mixtures. There are 11 figures showing absorption curves of various phenolic compounds and curves of various artificial mixtures. There are 21 references (4 American, 11 Russian, 3 German, 1 Japanese, 1 British, 1 Chinese).

Card 2/2

OKIADNIKOVA, Z.A.: NAKHMANOVICH, A.S., SHERGINA, N.I.

Infrared spectroscopic investigation of the chemical mechanism governing the transformations of the high molecular fraction of semicoke tar under conditions of destructive hydrogenation. Trudy Vost.-Sib.fl.AN SSSR no.26:39-44 '59. (MIRA 13:6)
(Coal tar--Spectra) (Hydrogenation)

33607
S/678/61/000/038/007/009
A057/A126

53300

AUTHORS:

Sidorov, R.I., Khvostikova, A.A., Nakhmanovich, A.S.,
Shergina, N.I.

TITLE:

Investigation of the composition of industrial liquid-phase hydrogenation products. Report 8. Composition of highly condensed aromatic hydrocarbons

PERIODICAL:

Akademiya nauk SSSR. Vostochno-Sibirskiy filial. Trudy. Seriya khimicheskaya, no. 38, Moscow, 1961. Prevplashcheniya aromaticheskikh uglevodorodov v protsesse destruktivnoy hidrogenizatsii., 95 - 102

TEXT: The composition of high-molecular aromatic hydrocarbons, present in a liquid-phase hydrogenation product obtained from medium-temperature semicoke tar, is investigated and the content of hydrocarbon "types" determined in the present paper, which is part of a series of reports. The investigation concerns a liquid-phase hydrogenation product obtained under industrial conditions from a heavy oil of medium-temperature tar of Cheremkovo coal. The product contained 4.6% water, 10.9% phenols, 2.4% bases and loss, and 82.1% neutral oil. X

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33607
S/678/61/000/038/007/009
A057/A126

Investigation

The latter was separated by fractional distillation, initially at atmospheric pressure up to 320°C (69.7%) and then the fraction in vacuum at 360 - 420°C (20.0%). This fraction was then chromatographically separated into four concentrates and thoroughly investigated. A total amount of 0.55% pyrenes, 2.48% phenanthrenes, and 0.56% anthracenes was found. The latter two were determined by means of the Van Nes - Van Westen n-d-M method. Ultraviolet spectra of the liquid fraction indicate that compounds with condensed aromatic rings are prevailing. According to the n-d-M method they are chiefly of the 2A1N type, containing apparently homologues of tetrahydroanthracene, tetrahydrophenanthrene, and acenaphthene, i.e., compounds with two condensed aromatic rings. Also smaller amounts of the phenyltetralin, and fluorene type may be present. The study proved that the graphical method for the determination of composition has to be completed by data of ultraviolet spectra for high boiling hydrocarbon mixtures. The composition of the concentrate shows that compounds with two, or three naphthenic rings are absent, and the types 2A1N, 3A, 3A1N, and 4A are prevailing. There are 3 figures and 5 tables.

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Card 2/2

S/062/62/000/008/010/016
B117/B180

AUTHORS: Shostakovskiy, M. F., Skvortsova, G. G., Samoylova, M. Ya.,
and Shergina, N. I.

TITLE: Copolymerization of vinyl ethers of o-, m- and p-aminophenols
with acrolein in the presence of stannic chloride

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh
nauk, no. 8, 1962, 1447-1451

TEXT: This study shows that the polymer yield depends more on the ratio,
than on the activity, of the components. The highest yields were
recorded with a 75:25 mole % acrolein: aminophenyl vinyl ether ratio.
The copolymer contains more amino-phenyl to vinyl ether links than does
the initial mixture. The amorphous copolymers, containing 7-8% oxygen,
are bright yellow, orange or brown in color, soluble in acetone, benzene
and chloroform, and insoluble in alcohols, petroleum ether, water and
dilute acids and alkalis. Heated to 130-140°C, they melt to form
brightly colored liquids. The molecular weights of the polymers obtained
were between 600 and 3,000. Qualitative and spectral analysis revealed

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S/062/62/000/008/010/016
B117/B180

Copolymerization of vinyl ...

the presence of functional groups. There are 4 figures and 2 tables,

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
Akademii nauk SSSR (Irkutsk Institute of Organic Chemistry
of Siberian Department of the Academy of Sciences USSR)

SUBMITTED: February 7, 1962

Card 2/2

IVANOVA, L.S.; SHERGINA, N.I.; SIDOROV, R.I.

Composition of phenols of mean temperature Cheremkhovo coal tar
investigated by the methods of spectrophotometric analysis and gas-
liquid chromatography. Izv. SO AN SSSR no.11 Ser.khim.nauk no.3:
108-113 '63. (MIRA 17:3)

1. Institut nefte- i uglekhimicheskogo sinteza Sibirskogo otdeleni-
ya AN SSSR, Angarsk.

L 32217-65 EWT(m)/EPF(c)/T/EWP(j)/EPR PC-L/Pr-L/Ps-L RPL MM/GS/RM
 S/0000/64/000/000/0140/0144

ACCESSION NR: AT5002123

31
B+1

AUTHOR: Sokolov, B.A.; Khil'ko, O.N.; Shergina, N.I.

TITLE: The order of addition of hydrosilanes to phenylacetylene

SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomerov
 (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 140-144

TOPIC TAGS: silicoorganic compound, heterorganic compound, hydrosilane, phenyl-acetylene

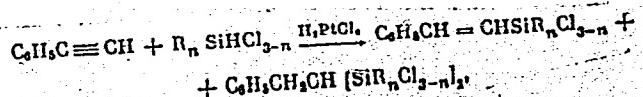
ABSTRACT: The synthesis of $C_6H_5CH = CHSiCl_3$ (boiling. pt. 97°C at 9 mm Hg), $C_6H_5CH_2CH(SiCl_3)_2$ (boil. pt. 162°C at 8 mm Hg), $C_6H_5CH=CHSi(CH_3)Cl_2$ (b.p. 110°C at 4 mm), $C_6H_5CH_2CH[Si(CH_3)Cl_2]_2$ (1-phenyl-2-, 2-bis-(methyldichlorosilyl)ethane) (b.p. 162°C at 17 mm), $C_6H_5CH=CHSi(C_2H_5)Cl_2$ (β -ethyldichlorosilylstyrene, b.p. 142°C at 16 mm), $C_6H_5CH_2CH[Si(C_2H_5)Cl_2]_2$, (b. p. 170°C at 10 mm), $C_6H_5CH = CHSi(CH_3)(C_2H_5)Cl$ (b. p. 130°C at 7 mm), $C_6H_5CH = CHSi(C_2H_5)_3$ (β -triethyl-silylstyrene, b. p. 138°C at 10 mm), $C_6H_5CHBrCH_2Si(CH_3)Cl_2$ (b.p. 86°C at 2 mm), $C_6H_5CH = CHSi(C_2H_5)F_2$ (β -ethyldifluorosilylstyrene, b. p. 85°C at 5 mm), $C_6H_5CH_2CH[Si(C_2H_5)F_2]_2$ (b. p. 110°C at 5 mm), and $C_6H_5CH = CHSiF_3$ (b. p. 41°C at 1 mm).

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L 32217-65

ACCESSION NR: AT5002123

was accomplished, with a yield of 43-85%, by adding one or two molecules of trichloro-, methyldichloro-, ethyldichloro-, methylethylchloro-, and triethylsilane to phenyl-acetylene in the presence of 0.1 M chloroplatinic acid, according to the reaction:



where R is CH₃ or C₂H₅ and n = 0, 1, 2, 3. The hydrosilane molecules were found to add in the cis-position, forming a trans-isomer, contrary to the Markovnikov rule. Hard, vitreous polymers, difficultly soluble in organic solvents, resulted from the addition of one hydrosilane molecule to one phenylacetylene molecule. The recombination scattering spectra, taken with an ISP-51 spectrograph, are supplied for some of the products. Orig. art. has: 1 table and 2 formulas.

ASSOCIATION: none

SUBMITTED: 30Jul64

ENCL: 00

SUB CODE: OC

NO REF SOV: 006

OTHER: 004

Card 2/2

L 33266-66 EWP(j)/EWT(m) RM
ACC NR: AR6016190

SOURCE CODE: UR/0058/65/000/011/D024/D024

AUTHOR: Shostakovskiy, M. F.; Shergina, N. I.; Kagan, G. I.; Komarov, N. V.

TITLE: Investigation of the vibrational spectra of certain carbonyl-containing silicoacetylene compounds

SOURCE: Ref. zh. Fizika, Abs. 11D186

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 92-98

TOPIC TAGS: silicon compound, acetylene compound, ir spectrum, vibration spectrum, chemical bonding

ABSTRACT: The authors investigated the ir spectra of 16 silicoacetylene compounds which were synthesized for the first time. The frequencies of the vibrations of the fundamental groups are classified. It is shown that the frequency of the oscillations of the acetylene bond, which contains the silicon atom in the α position, changes with the character of the radical R. On the basis of the values of the vibrational frequencies for the bonds $=\text{SiCC}=\text{C}-$ and $-\text{C}=\text{C}-$ it is noted that these bonds do not interact. [Translation of abstract]

SUB CODE: 20, 07

78
B

Card 1/1

L 18281-65 EWT(m)/EPF(c)/EPN(j) Po-4/Pr-4 AFMD(t)/AS(mp)-2/BSD/RAEM(a)/
SSD(c)/AFWL/ESD(gs)/ESD(t) RM S/0062/64/000/009/1606/1610
ACCESSION NR: AP4045798

AUTHOR: Shostakovskiy, M. F.; Shergina, N. I.; Komarov, N. V.; Maroshin,
Yu. V.

TITLE: Vibration spectra of vinylacetylenic oxygen-containing organosilicon
compounds

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 9, 1964, 1606-1610

TOPIC TAGS: vinylacetyleneorganosilane, vinylacetylenic organosiloxane,
vinylacetylenic organosilanol, vibration spectrum, IR spectrum, Raman spectrum,
vinylacetylene group, vibration frequency, vibration intensity

ABSTRACT: The IR spectra and the Raman spectra of vinylacetylenic oxygen-containing organosilicon compounds were examined to determine if the oxygen-containing groups-COH, SiOH, COSi and SiOSi in the alpha-position with respect to the acetylenic bond had any significant effect on the vibrations of the vinylacetylene group. Data was obtained for the following compounds: dimethylvinylethylenylcarbinol (I), dimethylvinylethynylsilanol (II), dimethylvinylethynylmethoxytrimethylsilane (III), pentamethylvinylethynyldisiloxane (IV), dimethylvinylethynyl-

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L 18281-65

ACCESSION NR: AP4045798

methoxymethylethylsilane (V), bis(dimethylvinylethynylmethoxy)dimethylsilane (VI), hexamethyl-1, 3-di(vinylethynyl)trisiloxane (VII), and tetramethyl-1, 2-di(vinylethynyl)disiloxane (VIII). The band characteristic of the acetylenic bond does not appear in the IR spectra of the vinylacetylenic alkoxy silanes V, V, VI, and in I; in the analogous organosilicon compounds II, III, VII and VIII, the C≡C characterizing bands appear, at somewhat lower frequencies but higher intensities than in vinylacetylenic hydrocarbons. On the other hand the vinylacetylene group had little effect on the vibration frequency of the Si-OH, C-OH, Si-O-Si and C-O-Si bonds. The values for the double bond frequencies characteristic of the vinyl group remained essentially constant in all the compounds investigated. Orig. art. has: 1 table and 1 figure

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR (Irkutsk Institute of Organic Chemistry Siberian Department AN SSSR)

SUBMITTED: 29Dec62

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 010

OTHER: 001

Card 2/2

SHOSTAKOVSKIY, M.F.; SHERGINA, N.I.; BRODSKAYA, E.I.; YAROSH, O.G.; KOMAROV, N.V.

Vibrational spectra of ethinylsilanes. Dokl. AN SSSR 158 no.5:1143-1145
O '64.
(MIRA 17:10)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.
2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

SHOSTAKOVSKY, M.F.; SHERGINA, N.I.; KOMAROV, N.V.

Infrared spectra of some diacetylene organosilicon compounds.
Zhur. ob. khim. 35 no.9:1650-1654 S '65. (MIRA 18:10)

I. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

БИБЛИОГРАФИЯ, № 1. СПЕКТРОСКОПИЯ, № 2. СПЕКТРОСКОПИЯ

Determination of basic and acidic properties of some organic
containing organosilicon compounds by infrared spectrometry.
Izv. AN SSSR. Ser. khim. no.11:2037-2039 '63.

(МИР 1841)

I. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

SHOSTAKOVSKIY, M.F.; SHERGINA, N.I.; GOLOVANOVA, N.I.; KOMAROV, N.V.;
BRODSKAYA, E.I.; MISYUNAS, V.K.

Vibrational spectra of some organotin acetylenic compounds.
Zhur. ob. khim. 35 no.10:1768-1770 O '65. (MIRA 18:10)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

SHOSTAKOVSKIY, M.F.; SHURGINA, N.N.; KOMAROV, N.V.; BRODSKAYA, E.I.;
IGONINA, I.I.

Vibrational spectra of some organosilicon acetylene and diacetylene
compounds. Izv. AN SSSR. Ser. khim. no.6:1126-1128 Je '64.
(MIKA 17:11)

I. Institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

5(3)

SOV/153-2-4-14/32

AUTHORS: Kalabina, A. V., Shergina, S. I., Shergina, N. I.

TITLE: XXVII. Synthesis and Properties of Cis- and Trans-Isomers of
α,β-Ethyl-vinyl-aryl Bromides

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya
tekhnologiya, 1959, Vol 2, Nr 4, pp 545 - 549 (USSR)

ABSTRACT: The addition of bromine to vinyl-aryl ethers with the formation
of α,β-diethyl-ethyl-aryl bromide with theoretical yields has
been previously proved by the authors (Ref 1). In addition to
the problem mentioned in the title, the paper under discussion
deals with the separation of the substances mentioned there into
cis- and trans-isomers. A survey of publications is added (Refs
2-10). The authors separated the compounds mentioned in the title
as cis- and trans-isomers (ratio - 3:1) with a total yield of
80-89% of the theoretical yield. The compounds are colorless
liquids with a sharp unpleasant odor, and a strong lachrymose
effect. Table (p 546) shows that the boiling temperatures, re-
fractive indices, and specific gravities of cis-isomers are con-
siderably higher than those of trans-isomers. The molecular weights
and refractions of the trans-isomers, however, are higher (in
accordance with reference 11). In order to check the configu-

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XXVII. Synthesis and Properties of Cis- and Trans-Isomers SOV/153-2-4-14/32
of β -Ethyl-vinyl-aryl Bromides

ration of the substances mentioned in the title, their interaction with caustic potash was investigated (see Equation). Under the same conditions, HBr separated more quickly from the trans-isomer than from the cis-isomer, as was to be expected. Figures 1-3 show absorption curves of the compounds obtained in isoctane in ultra-violet light. Although the picture typical of phenyl-vinyl ether is preserved in the spectra of the two isomers, their curves distinctly differ from each other. In conclusion, analogous differences of the two isomers of β -ethyl-vinyl bromide of o-cresol, and α, β -diethyl-ethyl-orthocresyl bromides (Fig 3, Fig 2, Curve 1) are discussed. There are 3 figures, 1 table, and 12 references, 6 of which are Soviet.

ASSOCIATION: Irkutskiy gosudarstvennyy universitet im. A. A. Zhdanova, Kafedra vysokomolekulyarnykh soyedineniy (Irkutsk State University imeni A. A. Zhdanov, Chair of Highly-molecular Compounds)

SUBMITTED: June 4, 1958

Card 2/2

L 16113-65 EPA(s)-2/EWT(m)/EPF(c)/EWP(j)/T Pe-4/Pr-4/Pt-10 ESD(t)/
ESD(gs)/ASD(m)-3 RM

ACCESSION NR: AP4045835

S/0062/63/000/012/2197/2201

AUTHOR: Kotlyarevskiy, I. L.; Zanina, A. S.; Shergina, S. I.

TITLE: Highly unsaturated polymers. Report No. 8, Synthesis and polycondensation of 4, 4'-diethinylidiphenylmethane and 1, 2-bis-(4'-ethinylphenyl) ethane

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 12, 1963, 2197-2201

TOPIC TAGS: polymer, unsaturated polymer, triple C=C bond, polycondensation, oxidizing polycondensation, infrared spectrum, diacetylene link, polymer backbone, acetylation, hydration, dehydration, bromination, dehydrobromination, chlorination

ABSTRACT: Within the frame of a prolonged study of magnetic and electrical properties and their relation to the particular polymer structure in such compounds synthesis of the two title compounds and their oligomers (I, II, III, and IV resp.) containing diacetylene/links in the chain is described, as are the products themselves. Oxidizing polycondensation was conducted in the presence of CuCl in a pyridine solvent. The i. f. spectra of both mono-and polymers showed the triple

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L 16113-65
ACCESSION NR: AP4045835

2

C≡C bond band (doublet) and 1, 4 substitution at the benzene ring. Neither polymer gave the EPR signal, both discolored around 300. Their electrophysical properties are being studied. A schematic picture of the synthesis is presented.

Orig. art. has: 10 formulas.

ASSOCIATION: Institut khimicheskoy kinetiki i gorenija SO Akademii nauk SSSR
(Institute of Chemical Kinetics and Combustion SO Akad. of Sciences SSSR)

SUBMITTED: 13Aug62

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 007

OTHER: 003

Card 2/2

SHERGINA, S.I.; ZANINA, A.S.; TROTSENKO, Z.P.; KOTLYAREVSKIY, I.L.

Chemical properties of diethynylarenes. Izv. AN SSSR. Ser. khim.
no.3:574-578 '65. (MIRA 18:5)

1. Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya
AN SSSR.

L 11245-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6002105

SOURCE CODE: UR/0062/65/000/011/2077/2079

44 55

44 55

44 55

44 55

44 55

50

AUTHOR: Kotlyarevskiy, I. L.; Zanina, A. S.; Shergina, S. I.; Kushta, V. G.

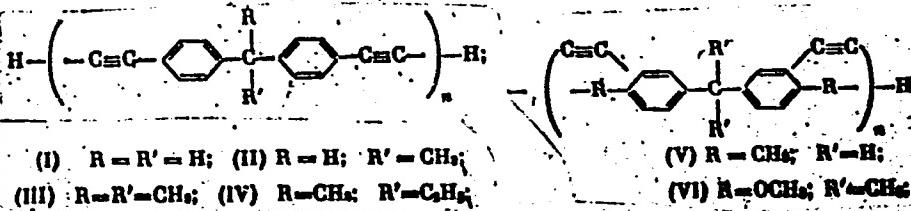
ORG: Institute of Chemical Kinetics and Combustion of the Siberian Department
of the Academy of Sciences SSSR (Institut khimicheskoy kinetiki i gorenija
Sibirskego otdeleniya Akademii nauk SSSR)

TITLE: Electrophysical properties of certain polyethynylpolyarenes

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 11, 1965, 2077-2079

TOPIC TAGS: organic semiconductor, semiconducting polymer, pyrolysis

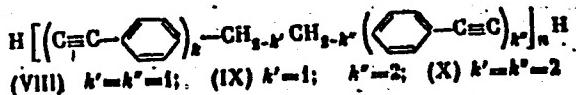
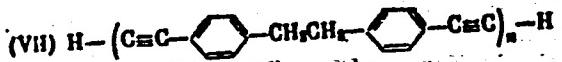
ABSTRACT: A study has been made of the electrical conductivity, its temperature dependence, and conduction type of polyethynylpolyarene oligomers I to X and of the pyropolymers produced by heat treatment of these oligomers at 300, 400, and 500°C.



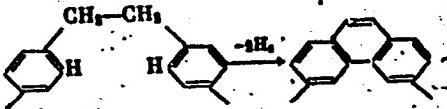
UDC: 537.311+541.6+547.362

Card 1/3

L 19245-66
ACC NR: AP6002105



All the polymers were p-type. All of compounds I to II, when heat treated up to 300°C, remained typical dielectrics at room temperature. Activation energy for conduction increased with the degree of branching. After heat treatment of I to VI to 400°C and especially to 500°C, properties typical of semiconductors appeared owing to the formation via triple bonds of three-dimensional cross-linked structures. However, even in this case, the conductivity of I to VI did not exceed 10^{-7} to 10^{-11} mho/cm owing to breaks in their conjugated systems. In contrast, oligomer VII, after heat treatment at 500°C, irreversibly acquired a high conductivity (10^{-4} mho/cm) at an activation energy of 0.1 ev, a thermoelectric power of 37 $\mu\text{v/c}$, and a nonlinear volt-ampere characteristic. The typical semiconducting properties of VII heat treated at 500°C were attributed to cyclization:



Card 2/3

L 11245-66

ACC NR: AP6002105

Of oligomers VIII to X, X has the most interesting properties (conductivity of the 500C pyropolymer, 10^{-4} mho/cm). It is concluded that preparative efforts aimed at obtaining polyethynylpolyarenes with predetermined properties (good solubility and conductivity) should be directed toward the synthesis of oligomers similar to VII and having substituents in the methylene bridge. Orig. art. has: 1 table [SM] and 1 figure.

SUB CODE: 11, 20/ SUBM DATE: 04Mar65/ ORIG REF: 003/ ATD PRESS: 4173

BC

Card 3/3

L-11-706-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6002106

SOURCE CODE: UR/0062/65/000/011/2079/2081

39
13AUTHORS: Shergina, S. I.; Kotlyarevskiy, I. L.; Zanina, A. S.

ORG: Institute for Chemical Kinetics and Combustion, Siberian Branch of the Academy of Sciences SSSR (Institut khimicheskoy kinetiki i goreniya, Sibirskego otdeleniya Akademii nauk SSSR)

TITLE: Polyacetylene compounds, derivatives of di-, tri-, and tetraphenylethylene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 11, 1965, 2079-2081

TOPIC TAGS: polymer, organic chemistry, conjugated polymer, organic synthesis process, acetylene

ABSTRACT: To extend the investigations of the authors (Izv. AN SSSR. Ser. khim. 1963, 2197) and in particular to study the properties of conjugated polymers, the following polyacetylene monomers were synthesized: 4,4'-diethynylstilbene I, 1,1,2-tris-(p-ethynylphenyl)ethylene II, and 1,1,2,2-tetrakis-(p-ethynylphenyl)ethylene III. The initial stages of the synthesis consist of the acetylation of a hydrocarbon which contains a double bond between phenyl nuclei. A reaction scheme for the synthesis is presented. Oxidative polycondensation of the monomers I, II, and III in presence of cuprous chloride yielded the corresponding oligomers. The latter gave a narrow intensive EPR signal of $\approx 10^{18}$ unpaired spins per gram and had an electrical

Card 1/2

UDC: 542.91+547.362

2

L 14706-66

ACC NR: AP6002106

resistance of $\approx 10^{14}$ ohm cm. The yields, melting points, and IR absorption of the C≡C and ≡C - H bonds for the synthesized monomers are listed. Orig. art. has: 3 equations.

SUB CODE: 07/ SUBM DATE: 04Mar65/ ORIG REF: 001/ OTH REF: 001

BVK
Card 2/2

L 24298-66 EWT(m)/EMP(j)/T RM

ACC NR: AP6009801

SOURCE CODE: UR/0062/66/000/002/0358/0360 .
*y/o*AUTHOR: Kotlyarevskiy, I. L.; Shergina, S. I.; Zenina, A. S. *39*
*B*ORG: Institute of Chemical Kinetics and Combustion, Siberian Department
of the Academy of Sciences, SSSR (Institut khimicheskoy kinetiki i
goreniya Sibirskogo otdeleniya Akademii nauk SSSR)TITLE: Preparation of diacetylene derivatives of 1,2-diphenylethane
and 1,4-diphenylbutaneSOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966,
358-360TOPIC TAGS: aromatic hydrocarbon, alkyl benzene, polycondensation,
polymer, solubilityABSTRACT: The effect of substituents in the ethylene bridge of
4,4'-diethynylidiphenylethane-1,2 (I) on the solubility of polymers
obtained by oxidative polycondensation of the corresponding monomers was
investigated. α , β -dimethylbenzyl and analogous compounds with methyl,
ethyl and n-propyl substituents on the dimethyl group were acetylated,
chlorinated and treated with PCl_5 and $NaNH_2$ to form the corresponding
diacetylenic derivatives of I. Increasing the size of the substituent

Card 1/2

UDC: 542.91+547.362

L 24298-66

ACC NR: AP6009801

increased the solubility of the polymers formed by heating the monomers in pyridine in the presence of oxygen and cuprous chloride: a 10% colloidal solution in cyclohexane of the polymer was obtained from the monomer in which the dimethyl had n-propyl substituents. However, the polymer obtained from 1,4-bis(4'-ethynylphenyl)butane was insoluble. Orig. art. has: 2 tables and 2 figures.

SUB CODE: 07/ SUBM DATE: 05Jul65/ OTH REF: 002

Card 2/2 FV

L 28441-66 EWT(m)/EWP(j)/T IJP(c) WW/RM
ACC NR: AP6017878 SOURCE CODE: UR/0062/66/000/005/0902/0908

AUTHOR: Kotlyarevskiy, I. L.; Zanina, A. S.; Shergina, S. I.; Loboda, L. I.

46
B

ORG: Institute of Chemical Kinetics and Combustion, Siberian Department, Academy of Sciences SSSR (Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Highly unsaturated polymers. Communication 16. Polyacetylene compounds, derivatives of di-, tri-phenylmethane and diphenylethane

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1966, 902-908

TOPIC TAGS: organic semiconductor, semiconducting polymer, heat resistant polymer, polyacetylene, polyarylene, oligomer

ABSTRACT: New highly unsaturated oligomers IV and VII (see below) having alternating arylene and diacetylene groups in the backbone were prepared which combine high heat resistance and solubility in some organic solvents. It is noted that such oligomers are of practical interest, even if their electrical conductivity proves to be low, for such applications as heat resistant dielectrics. Oligomers IV and VII were prepared as follows:

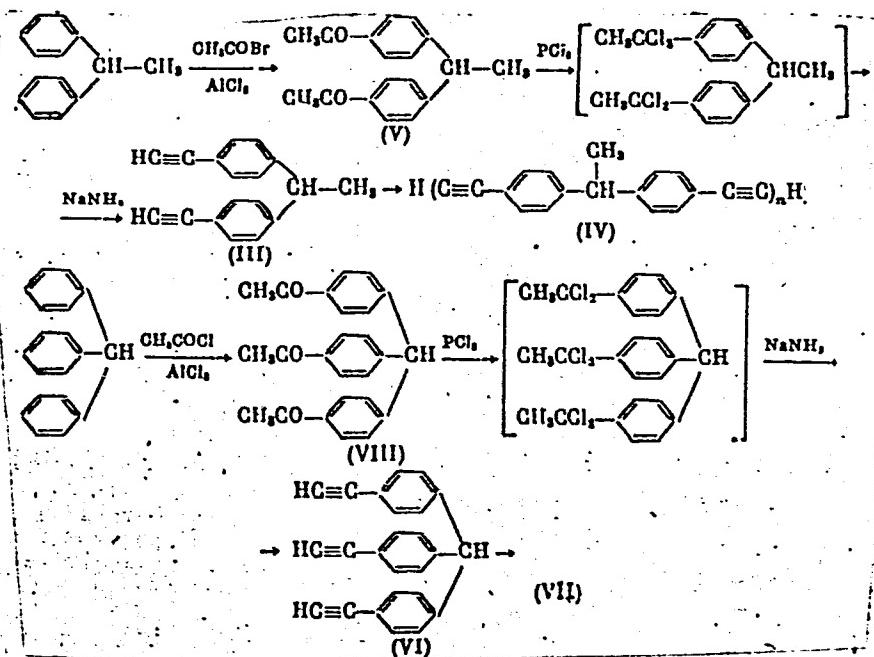
15

Card 1/3

UDC: 547.362+542.952

L-28441-66

ACC NR: AP6017878

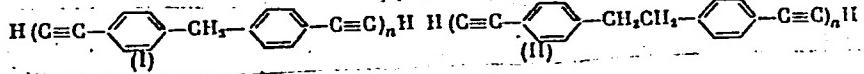


Card 2/3

L 28441-66

ACC NR: AP6017878

Oligomers I and II;



were prepared earlier. Owing to the presence of a methyl substituent, oligomer IV, unlike I, was almost fully soluble in pyridine. Oligomer IV was obtained in the form of light-yellow films; it did not fuse up to 500°C but darkened at 340°C. Oligomer VII had apparently a tridimensional network structure; a dark brown powder, it was much darker in color than I and IV. VII gave a narrow intense EPR signal, indicating the presence of conjugation despite the formal disruption of conjugation by the CH groups present between phenyl rings. A number of monomers, mono-, di-, and triacetylene derivatives of diphenyl-methane and -ethane were also prepared.

SUB CODE: 07 / SUBM DATE: 25Dec63 / ORIG REF: 002 / OTH REF: 001
ATD PRESS: 3805

Card 3/3 PX

L 45725-66 EXT(i)/EWT(j)/T RM
ACC NR: AP6024413 (N)

SOURCE CODE: UR/0020/66/169/001/9111/9113

AUTHOR: Dulov, A. A.; Slinkin, A. A.; Rubinshteyn, A. M.; Kotlyarevskiy, I. L.;
Shvartsberg, M. S.; Andriyevskiy, V. N.; Zanina, A. S.; Shergina, S. I.

56
B

ORG: Institute of Organic Chemistry im. N. D. Zolinskiy, Academy of Sciences, SSSR
(Institut organicheskoy khimii Akademii nauk SSSR); Institute of Chemical Kinetics and
Combustion, Siberian Branch, Academy of Sciences, SSSR (Institut khimicheskoy kinetiki
i goreniya Sibirskego otdeleniya Akademii nauk SSSR)

TITLE: Influence of disturbance of conjugation on the properties of semiconducting
polymers

SOURCE: AN SSSR. Doklady, v. 169, no. 1, 1966, 111-113

TOPIC TAGS: semiconducting polymer, conjugated polymer, semiconductor conductivity

ABSTRACT: It has been frequently reported in the literature that the disturbance of
conjugation in organic semiconductors as a result of either noncoplanarity of aromatic
rings or introduction of aliphatic, oxygen, or sulfur bridges into the conjugated
chain lowers the electric characteristics. In the present paper, the intensity of the
influence of these different types of conjugation disturbances was compared in a se-
ries of polymers of a single class, the polyarylenepolyacetylenes, whose electrical
conductivity and ESR spectra were measured. The introduction of various groups dis-
turbing the conjugation into the conjugated chain was found to hinder the processes of

Card 1/2

UDC: 541.67

L 45725-66
ACC NR: AP6024413

current transfer. The relative effectiveness of this hindering influence of different groups may change with the flexibility of the molecules, which affects the intermolecular interactions. In particular, the biphenylene grouping, which sharply decreases the electric properties of "linear" structures, does not affect the properties of polymers consisting of more flexible oxygen-containing molecules. It is notable that bridge groups do not appreciably lower the semiconducting properties. The paper was presented by Academician Kazanskiy, B. A., 23Oct65. Orig. art. has: 1 table.

SUB CODE: 07/ SUBM DATE: 23Jul65/ ORIG REF: 014/ OTH REF: 003

Card 2/2 ULR

SOKOLOV, I.Yu.; AYDIN'YAN, N.Kh.; BELEKHOVA, V.N.; BRODSKIY, A.A., starshiy nauchnyy sotrudnik; GLEBOVICH, T.A.; DALMATOVA, T.V.; KOMAROVA, A.I.; KOMAROVA, Z.V.; KOPYLOVA, M.M.; KUDRYAVTSEVA, M.M.; LIBINA, R.I.; LOGINOVA, L.G.; MARGOLIN, L.S.; MARKOVA, A.I.; MEDVEDEV, Yu.L.; MILLER, A.D.; MULIKOVSKAYA, Ye.P.; NECHAYEVA, A.A.; OZEROVA, N.V.; PALKINA, I.M.; PETROPAVLOVSKAYA, L.A.; POPOVA, T.P.; REZNIKOV, A.A.; SERGEYEV, Ye.A.; SETKINA, O.N.; STEPANOV, P.A.; SUVOROVA, Ye.G. [deceased]; SHERGINA, Yu.P.; PANOV, A.I., red.izd-va; IVANOVA, A.G., tekhn.red.

[Methodological handbook on the determination of microcomponents in natural waters during prospecting for ore deposits] Metodicheskoe rukovodstvo po opredeleniiu mikrokomponentov v prirodnykh vodakh pri poiskakh rudnykh mestorozhdenii. Moskva, Gos.nauchno-tekn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 287 p.

(MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii (for Sokolov, Brodskiy, Glebovich, Ozerova, Kudryavtseva, Loginova, Markova, Medvedev, Belekhova, Palkina,

(Continued on next card)

SOKOLOV, I.Yu.—(continued) Card 2.

Popova, Petropavlovskaya). 2. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR (for Aydin'yan). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki (for Miller, Sergeyev, Margolin). 4. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut (for Mulikovskaya, Reznikov). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (for Komarova, A.).

(Prospecting—Geophysical methods)

(Water, Underground—Analysis)

SHERGINA, Yu.P.; KAMINSKAYA, A.B.

Isotopic composition of boron in nature. Geokhimiia no.8:725-
731 Ag '63. (MIRA 16:9)

1. All-Union Research Institute of Prospecting Methods and
Techniques, Leningrad.

SHERGOV, A., prepodavatel'.

Needed but bad training equipment. Za rul. 17 no.2:28-29 F '59.
(MIRA 12:3)
(Traffic signs and signals)

SHERJOVA, ...

2421² SHERJOVA, G. Koshevskiy Miproj. (O nolodjikh inzhenerakh Ural- ZIS (cherk).
Cjornaja, 1942, No. 31. S. 7-8.

SC: Letopis, No. 32, 1949.

SHERGOVA, G.

"Moscow is speaking"; a radic sketch. p 1. "Week dedicated to the composer Svetoslav Obretenov." p 1. "German guests of the Bulgarian musical public." p 1. (RADIO PREGLED, Vol. 8, #24, June 1953, Bulgaria)

SC: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress, August, 1954, Uncl.

SHERGOVA, Galina.

The Kurile Islands. Rabotnitsa 34 no.7:7-8 Jl '56. (MIRA 9:9)
(Kurile Island--Fisheries)

SHERGOVA, Galina

Ways to the world. Rabotnitsa 36 no.5:3-5 My '58.
(Children) (MIRA 11:5)

DIMOV, St.; SHERIEV, Il.

Methods and equipment used in feeding milch cows when they
are kept free. Izv mekh selsko stop FAN no. 2:149-164 '62.

SHERIF ARYEL' KHAMIL; ALIMARIN, I.P.; PUZDRENKOVA, I.V.

Extraction separation of gallium from indium using cupferron.
Zhur. anal. khim. 20 no.7:894-895 '65. (MIRA 18:9)

I. Lomonosov Moscow State University.

SHERIF, R.M., aspirant (Ob"yedinennaya Arabskaya Respublika)

Classification of the iron ore deposits of the United Arab Republic as a basis for organizing iron prospecting operations. Izv. vys. ucheb. zav.; geol. i razv. 7 no.9:81-90
S '64. (MIRA 17:10)

1. Moskovskiy geclogorazvedochnyy institut imeni Ordzhonikidze.

SHERIK, Ye. A.

Cand Geol-Min Sci - (diss) "Tertiary deposits of the northwestern Caucasus and the western Transcaucasus and their petroleum-gas-bearing potential." Moscow, 1961. 27 pp; (State Economic Council of the USSR, Chief Scientific Research Inst, All-Union Petroleum-Gas Scientific Research Inst "VNII"); 150 copies; price not given ; list of author's works on page 27 (10 entries); (KL, 5-61 sup, 181)

L 63793-65 ENT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5018758

UR/0075/65/020/007/0894/0895

543.70

20
18
B

AUTHOR: Sherif Abdel' Khamid; Alimarin, I. P.; Puzdrenkova, I. V.

TITLE: Extractive separation of gallium from indium by means of cupferron

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 7, 1965, 894-895

TOPIC TAGS: gallium extraction, indium extraction, cupferron

ABSTRACT: A comparison of the extraction curves of gallium and indium cupferronate and N-benzoylphenylhydroxylamine showed cupferron to be more suitable for the separation of these two elements. Cupferron was added to a mixture of gallium and indium salts in 2 N sulfuric acid, and gallium cupferronate was extracted with chloroform. After evaporation of the extract and treatment of the residue with a mixture of sulfuric and nitric acid, the gallium content of the organic phase was determined with photometric gallion. The degree of separation after a double extraction was checked by spectral analysis and radiometrically by means of Ga⁷² and In¹¹⁴ isotopes. A double extraction insures a complete separation of Ga from In. If the organic phase is contaminated with indium, the latter can be easily removed by washing the extract with 2 N sulfuric acid containing a

Card 1/2

L 63793-65

ACCESSION NR: AP5018758

sufficient amount of cupferron. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 12Jun64

ENCL: 00

SUB CODE: IC, GC

NO REF SOV: 005

OTHER: 002

Card 2/2

SHERILL, M.

Aid to enterprises and control over their operations. Fin. SSSR
19 no. 5:60-62 My '58. (MIRA 11:6)

1. Nachal'nik finansovogo otdela Idetskogo sovnarhoza.
(Idetsk Province--Finance)

BORSHCHEV, A.; SHERIKH, M.

Planning working capital norms for the industry of regional
economic councils. Fin.SSSR 20 no.4:63-64 Ap '59.
(MIRA 12:6)
(Finance)

BORSHCHEV, A.; SHERIKH, M.

Our suggestions. Fin.SSSR 20 no.9:46-47 S '59.
(MIRA 12:12)
(Suggestion systems)

SHERIKH, M.

In plants of the Gorkiy Economic Council. Fin. SSSR 21 no.2:63-64
F '60. (MIRA 13:1)
(Gorkiy Province---Machinery industry---Finance)

SHERIKH, M.

Improve the work efficiency of economic laboratories. Fin. SSSR 38 no.1:
43-46 Ja '64. (MIRA 17:2)

SHERIKH, Moisey Danilovich; BOHYLEVA, L.V., red.

[Economic analysis of the fulfillment on the production program by an industrial enterprise] Ekonomicheskii analiz vypolneniya proizvodstvennoi programmy promyshlennym predpriatiem. Moskva, Ekonomika, 1965, 54 p.
(MIRA 18:3)

SHERIKH, M.D.

Save metals. Mashinostroitel' no.7:41 Jl '60. (MIRA 13:7)

1. Starshiy ekonomist Ministerstva finansov RSFSR.
(Factory management)

DMITRIYEVA, R.I.; ZHAGIRNOVSKIY, S.G.; MOLYAKOV, D.S.; MOREYNIS,
Ya.I.; SIMONOVA, TS.M.; TSEDILI', I.V.; SHEYGAN, G.I.;
SHERIKH, M.D.; MAZURKEVICH, M., red. izd-va; TELEGINA, T.,
tekhn. red.

[Auditing financial operations of the enterprises of regional
economic councils] Proverka finansovoi deiatel'nosti pred-
priatii sovnarkhozov. (MIRA 15:2)
(Industrial management) (Finance) (Auditing)

OLESYUK, Denis Ivanovich; IVANOV, Georgiy Petrovich; SHERIKH, M.D.,
otv. red.; MAZURKEVICH, M., red.izd-va; LEBEDEV, A., tekhn.
red.

[Special features of the work analysis of supply and sale
organizations] Osobennosti analiza raboty snabzhenchesko-
sbytovykh organizatsii. Moskva, Gosfinizdat, 1962. 65 p.
(MIRA 16:3)

(Industrial procurement—Auditing and inspection)

SHERIN G.A.

OSTINSKIY, A.Ya.; MOROZOV, A.P.; SHERIN, G.A., starshiy dispatcher;
BELEVICH, L.I., starshiy tekhnik laboratorii.

Dispatching work in the technical service of an interurban telephone exchange (from the experience of the Leningrad Interurban Telephone Exchange). Vest.sviazi 14 no.10:20-21 0 '54. (MLRA 7:11)

1. Glavnnyy inzhener Leningradskoy MTS (for Ostinskiy) 2. Starshiy inzhener Leningradskoy MTS (for Morozov)
(Leningrad--Telephone stations) (Telephone stations--Lenin-grad)

GRINSHTEYN, V.[Grinsteins, V.](Riga); SHERIN', L.[Serina, L.](Riga)

Synthesis of hydrazides of α,β -dicyanopropionic acids and their properties. Vestis Latv ak no.10:95-100 '60.
(EEAI 10:9:10)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Hydrazides) (Dicyanopropionic acid)

ACCESSION NR: AP4033644

S/0075/64/019/004/0470/0474

AUTHOR: Budarin, L. I.; Rumyantseva, T. I.; Sherina, G. G.

TITLE: Microdetermination of tantalum using catalytic polarographic currents of hydrogen peroxide.

SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 4, 1964, 470-474

TOPIC TAGS: tantalum analysis, polarography, catalytic current, hydrogen peroxide, polarographic current

ABSTRACT: The purpose of this work was to study the catalytic waves of tantalum (V), which occur in oxalic acid solutions of hydrogen peroxide, and to develop a polarographic method for the determination of microamounts of tantalum (V) from the measurements of these currents. In this work use was made of polarograph PA-1, with a mirror galvanometer and sensitivity of $1.8 \cdot 10^{-9}$ a/mm/m. The capillary characteristics were as follows $m=3.32$ mg/sec, $\tau = 3$ sec, $h=40$ cm. Oxygen was not removed from solutions, but solutions were thermostated at 25 ± 0.1 C. To investigate fully the nature of the wave at 0.3 V vs S.C.E. an investigation was made of polarographic currents as a function of the height of the mercury column and the

Card

1/3

ACCESSION NR: AP4033644

temperature. The limiting current was found to be essentially independent of the height of the mercury column, but it had a large temperature coefficient. This indicates the catalytic nature of this current. Following the investigations of the magnitude of catalytic currents as a function of the concentration of oxalic acid, hydrogen peroxide and acidity it was found that the following conditions are optimum for the determination of tantalum (V): $\text{CH}_2\text{O}_2=2.0 \times 10^{-3}$ M; $\text{CH}_2\text{SO}_4=0.032$ M - and $\text{C}_2\text{H}_2\text{C}_2\text{O}_4=0.05$ M. Under these conditions one finds a linear relationship between the concentration of tantalum (V) and the magnitude of the catalytic currents. It was found that 100 fold concentrations Mn (III), Zn (II), Cr (III), Pb (II), Cu(II), Hg (II) and Al (III) and equivalent amounts of Ni (II), Co (II), Ti (IV) do not interfere with the determination of Ta (V). "In conclusion the authors express their gratitude to K. B. Yatsimirskiy for his interest and valuable suggestions in discussion of this work." Orig. art. has: 4 tables and 7 figures.

ASSOCIATION: Ivanovskiy khimiko-tehnologicheskiy institut (Ivanovsk Institute of Chemical Technology)

SUBMITTED: 09May63

ENCL: 00

Card 2/3

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6

ACCESSION NR: AP403364

SUB CODE: MM, GC

NO REF Sov: 003

OTHER: 004

Card

3/3

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6"

MOLOTKOV, R.V.; LYKOVA, T.A.; Prinimali uchastiye: KALININA, M.I.; SHERINA,
O.G.; FROLENKOVA, A.A.; BAKHENDO, D.E.

Compounding of unsaturated polyesters and epoxy resins. Plast.
massy no.12:16-19 '60. (MIRA 13:12)
(Epoxy resins) (Esters)

L 32914-65 EWG(j)/EMT(m)/EPF(c)/EPF(n)-2/EPR/EMP(j)/T/EMP(t)/EMP(b) Po-4/
Pr-4/Ps-4/Fu-4 IJP(c) JD/JG/JAJ/RM

ACCESSION NR: AP5001752

S/0153/64/007/005/0715/0719 42
43

AUTHOR: Budarin, L. I.; Rumyantseva, T. A.; Sherina, T. T.

TITLE: Investigation of complex formation of Ta(V) with oxalic acid and hydrogen peroxide using the catalytic polarographic current

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 5, 1964,
715-719

TOPIC TAGS: tantalum oxalate peroxide complex, catalytic polarographic current, pertantallic acid, instability constant, equilibrium constant, tantalum complex

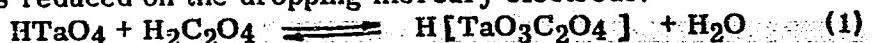
ABSTRACT: The reaction between Ta(V) and oxalic acid and hydrogen peroxide to form a mixed complex was studied using the catalytic polarographic current of hydrogen peroxide formed in acidified oxalate solutions of hydrogen peroxide in the presence of potassium tantalate. The catalytic current of Ta(V) increased uniformly at first and then tapered off to a limiting value as oxalic acid concentration was changed (hydrogen peroxide and potassium tantalate concentrations kept constant). The peracid HTaO_4 was formed from the potassium tantalate and hy-

Card 1/2

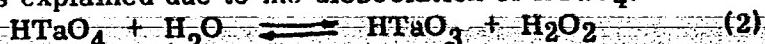
L 32914-65

ACCESSION NR: AP5001752

drogen peroxide, and then complexed with oxalic acid to form the mixed complex, which was reduced on the dropping mercury electrode:



The equilibrium constant of the complex compound depended on the H_2O_2 concentration. This was explained due to the dissociation of HTaO_4 :



The instability constant of HTaO_4 was 1.0×10^{-2} . The corrected equilibrium constant for the first equation was 6×10^{-3} . Orig. art. has: 5 figures and 7 equations.

ASSOCIATION: Kafedra analiticheskoy khimii, Ivanovskiy khimiko-tehnologicheskiy institut (Department of Analytical Chemistry, Ivanov Chemical-Technological Institute)

SUBMITTED: 08Jul63

ENCL: 00

SUB CODE: GC

NR REF SOV: 002

OTHER: 002

Card 2/2

MAZURIN, A.V., kandidat meditsinskikh nauk; SHERINEEK, I., studentka.

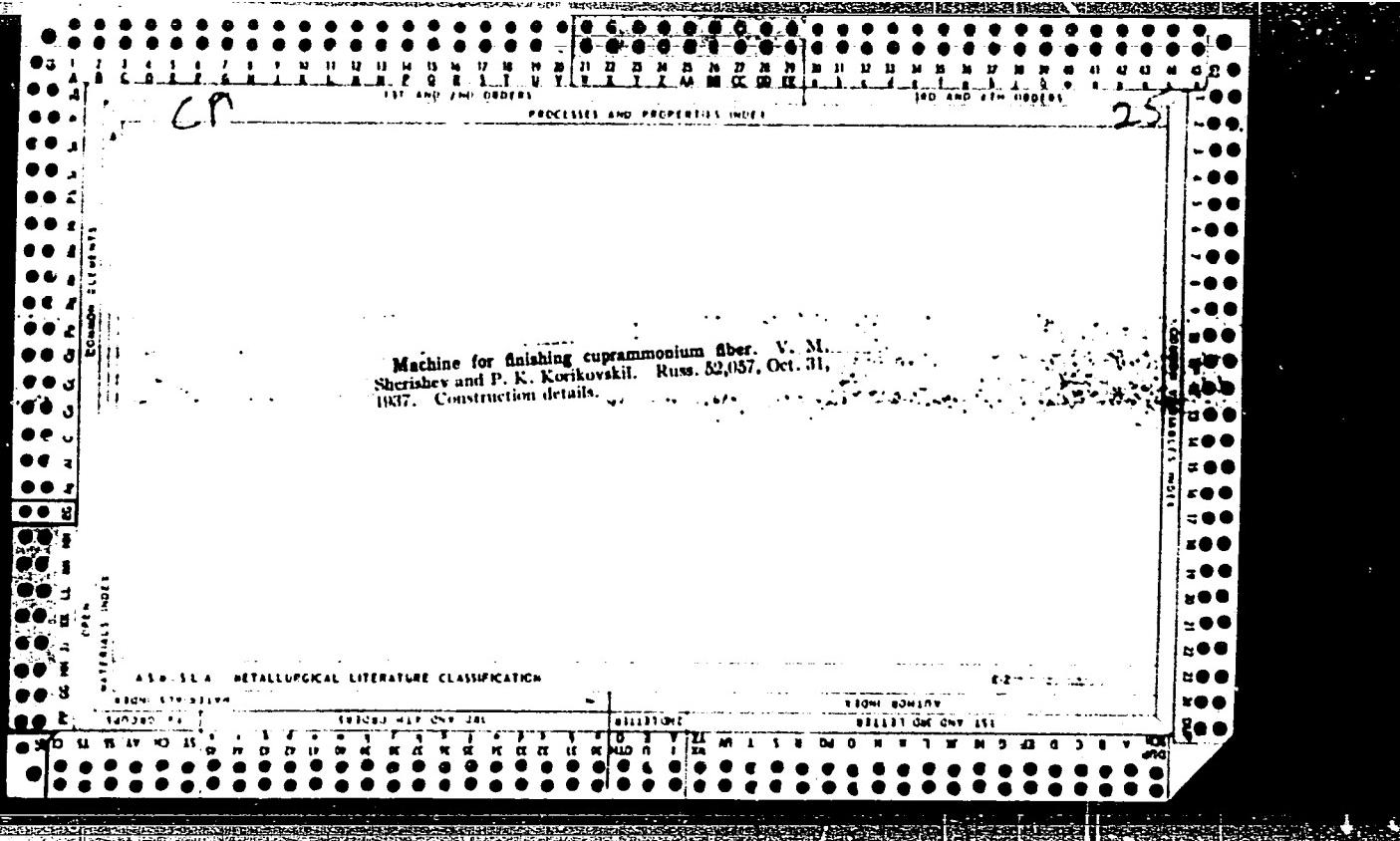
6-mercaptopurine for treating acute leukemia in children. Vop. okh.
mat. i det. 2 no.1:17-21 Ja-F '57. (MLRA 10:2)

1. Iz kafedry propedevtiki detskikh bolezney (zav. - professor
V.A.Vlasov) II Moskovskogo gosudarstvennogo meditsinskogo instituta
imeni I.V.Stalina (dir. - professor O.V.Kerbikov)
(LEUKEMIA) (MERCAPTAIS)

SHEVCHIS, I. [Serys, J.], deputat Verkhovnogo Soveta Litovskoy SSR

The attained is only a frontier. Voen. znan. 42 no.1:22
Ja '66. (MIRA 19:1)

1. Predsedatel' Kaunasskogo ispolnitel'nogo komiteta gorodskogo
Soveta deputatov trudyashchikhsya.



"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6

SHERISHEV, V.M.

Scouring wool with sulfonol. V. M. Sherishev and V. V. Rozhkova. *Tekstil. Prom.* 15, No. 9, 7-8(1955).—By E. Barabash
using sulfonol (a synthetic detergent) the amt. of anhyd.
 Na_2CO_3 consumed is reduced by 2%. E. Barabash

(1)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6"

SHERISHEV, V.N., inzhener.

Regularizing the feed of soap and soda into wool washing solutions.
Tekst.prom 15 no.11:64-65 N '55. (MLRA 9:1)

(Wool industry)

SIMENOV, V.

SIMENOV, V. regularizing the feed of soap and soda into wool-washing
solutions, Tr. from the Russian. p. 13.

Vol. 5, No. 10, 1956.

LETA PROMISHENOST.

TECHNOLOGY

Sofia, Bulgaria

Sc: East European Accesision, Vol. 6, No. 3, March 1957

SHERISHEV, V.M.; SOKOLOV, V.V.

Effective type of enterprise for the primary processing of wool.
Tekst.prom. 16 no.7:10-11 Jl '56. (MLRA 9:8)
(Woolen and worsted manufacture)

SHERISHEV, V.M., inzhener.

Scouring of raw wool. Tekst.prom. 16 no.10:23-26 O '56. (MIRA 10:1)
(Woollen and worsted manufacture.)

BESSJDOVA, Ye.M., inzh.; ROZHKOVA, V.V., inzh.; SHERISHEV, V.M., inzh.

Wool scouring with nonionic synthetic detergents. Tekst.prom.
18 no.10:17-18 0 '58. (MIRA 11:11)
(Woollen and worsted manufacture) (Wool--Cleaning)
(Cleaning compounds)

SHERISHEV, V.M.

Disk wool retrievers. Tekst.prom. 20 no.7:16-19 J1 '60.
(MIRA 13:7)
1. Rukovoditel' syr'ya i pervichnoy obrabotki shersti TSentral'nogo
nauchno-issledovatel'skogo institute sherstyanoy promyshlennosti.
(Woollen and worsted manufacture)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6

SHERISHEV, V.M.

Grading of wool. Standartizatsia 24 no.2:35-38 F '60.
(Wool--Grading)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6"

SHERISHEV, V.M.

Wool scouring and drying "Petri McNaught" apparatus for
laboratories. Tekst. prom. 22 no.7:81-82 Jl '62.
(MIRA 17:1)

1. Rukovoditel' laboratorii syr'ya i pervichnoy obrabotki
shersti TSentral'nogo nauchno-issledovatel'skogo instituta
sherstyanyoy promyshlennosti.

SHERISHEV, V.M.

"Fleissner" make machine for drying and carbonization. Tekst.
prom. 22 no.8:84-85 Ag '62. (MIRA 15:8)

1. Rukovoditel' laboratorii syr'ya i pervichnoy obrabotki shersti
TSentral'nogo nauchno-issledovatel'skogo instituta shersti.
(Germany, West--Wool--Drying) (Textile machinery)

SHERINSHEV, V.N.

The "Sh-2" wool catcher. Tekst. prom. 25 no.10;12-13 O '65.
(MIRA 18:10)

1. Glavnnyy tekhnolog Vsesoyuznogo nauchno-issledovatel'skogo
instituta legkogo i tekstil'nogo mashinostroyeniya.

Sherashensky, Ye F.

17(2,6)

DDV/16-60-3-32/37

AUTHORG:

Yukhnina, N.A., Chitova, I.I., Morozkova, N.D., Kurnitskaya, N.I.,
Chesnokova, R.P., Shul'zhen, E.I., Karachina, X.N., Perova, L.V.,
Galazdova, E.G., Gulya, A.M., Dorofejeva, Ye.K., Shabot, A.I.,
Golubeva, T.V.

TITLE:

The Biological Properties of Shigella dysenteriae, Isolated From
Different Clinical Forms of Dysentery. Author's Summary.

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i imunobiologii, 1960, Nr 3,
pp 128 (USSR)

ABSTRACT:

The authors made a study of various strains of Shig. dysenteriae
isolated from patients with different clinical forms of dysentery, ✓
checking the strain's ability to cause experimental keratoconjunctivitis in guinea pigs, its virulence for mice and its sensitivity
to antibiotics. No essential differences were found between the strains,
which bears out the great part played by the state of the macroorganism
in determining the nature of the clinical course in dysentery.

Card 1/2

ASSOCIATION: Institut epidemiologii i mikrobiologii imeni Gamalei ANI SSSR
(Institute of Epidemiology and Microbiology imeni Gamaleya of the
ANI USSR); Moskovskaya gorskaya i rayonnyaya sanitarno-
epidemiologicheskaya stantsiya (Moscow City and District Sanitary
and Epidemiological Station).

SUBMITTED: December 24, 1958

Card 2/2

YAKHNINA, N.A.; SHATROV, I.I.; MORDVINOVA, N.B.; KUZNETSOVA, N.S.;
SHAPOSHNIKOVA, R.P.; SHUL'MAN, E.A.; KAZACHINA, K.N.; PEROVA, L.V.;
SALAMANDRA, E.G.; SINAY, A.Ya.; SHERISHEVSKAYA, Ye.F.; SHABAD, A.T.;
GOLUBEVA, T.V.

Biological properties of causative agents isolated in various
clinical forms of dysentery. Zhur. mikrobiol. epid. i immun.
31 no.3:128 Mr '60. (MIRA 14:6)
(SHIGELLA PARADYSENTERIAE)

BULGARIA

SHERKOV, Sh., Dr, VIZPB/not identified; PENCHEV, B., Dr, TKZS
not identified, Knezh.

"Therapy and Prophylaxis of Blackhead of Turkey Chicks"

Sofia, Veterinarna Sbirka, Vol 63, No 1, 1966, pp 10-13.

Abstract: In connection with an outbreak of enterohepatitis (blackhead) among chicks of a turkey flock caused by infection with Histomonas meleagridis, various measures to prevent spread of the infection and to cure the diseased chicks were tried. On the basis of the results obtained, treatment of infected chicks with norsulfazol (sulfazol) and by intramuscular injection of novarsenol is recommended. Furthermore, copper sulfate, hydrochloric acid, and potassium permanganate should be added to the drinking water of the diseased chicks and a solution of these chemicals, which is also used to moisten the feed given to the whole flock as a prophylactic measure. This should be supplemented by dehelminization of the birds with phenothiazine, isolation of the infected birds, and disinfection.

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SHERISHORINA, S. I.

"Antigenic Substances of Typhoid-Paratyphoid Vaccines Depending on the Age of the Cultures," Avtoreferaty Dokladov 19-y Nauchnoy Sessii Saratovskogo Gosudarstvennogo Med. Inst., Saratov, 1952, pp 11, 12.

USSR/Medicine - Infectious Diseases

Feb. 53

"Concerning the Problem of the Mechanism of the Therapeutic Action of Penicillin: II. The Effect of Penicillin on the Factor of Spreading of Staphylococci and Streptococci," S.I. Sherishovina, Chair of Microbiol, Saratov Med Inst

"Zhur Mikrobiol, Epidemiol, i Immunobiol" No 2,
pp 29-33

Penicillin modifies the diffusion capacity of streptococci and staphylococci and produces unstable changes in their biological properties. The greatest changes in staphylococci cultures

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are produced by repeated introduction of bacteriostatic and subbactericidal doses of penicillin into the organism of the infected animal. Improvement in the clinical condition of the patient is accompanied by changes in the biological properties of bacteria causing the infection process and by a strengthening of phagocytosis. Reduction of the quantity of the causative factor in wound secretion does not determine the outcome of the infection process; the state of the macroorganism and qualitative changes in the bacterial causative factor are decisive elements.

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SHERISHORINA, S.I.; DAVIDSON, S.B.; MERINA, A.Ye.; BODUNOVA, V.A.; SHAMSHINA, M.F.;
GAVRILOVA, T.P.

Certain data on the treatment of chronic dysentery in children with
methylene blue with phthalazole. Pediatriia, Moskva no.3:24-26 May-June
1953. (CIML 25:1)

1. Professor for Sherishorina; Docent for Davidson; Assistant for Merina;
Physicians of Children's Home No. 2 for Bodunova, Shamshina, Gavrilova.
2. Of the Department of Microbiology (Head -- Prof. S. I. Sherishorina)
and the Department of Faculty Pediatrics (Head -- Docent S. B. Davidson)
of Saratov Medical Institute.

SHERISHORINA, S.I.

Gonococcal bacteriophage and its properties. Zhur.mikrobiol.epid.i immnin.
no.8:49-53 Ag '53. (MLRA 6:11)

1. Kafedra mikrobiologii Saratovskogo meditsinskogo instituta.
(Bacteriophagy)

SHERISHORINA, S.I., PONOMAREVA, O.I., FREYDMAN, S.L.

Isolation of Leptospira in thick media. Lab.delo 4 no.3:46-47
(MIRA 11:5)
My-Je '58

1. Iz kafedry mikrobiologii (zav. - prof. S.I. Sherishorina)
Saratovskogo meditsinskogo instituta.
(LEPTOSPIRA)

SHERISHORINA, S.I.

Variability of Streptococcus. Trudy Sar. gos. med. inst.
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1. Saratovskiy meditsinskiy institut, kafedra mikrobiologii
(zav. - prof. S.I. Sherishorina).
(STREPTOCOCCUS)

SHERISHORINA, S.I.; SOLODOVA, T.L.

Variability of micro-organisms under the influence of antibiotics.
Report No. 1: Trudy Sar. gos. med. inst. 26:192-196 '59.
(MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra mikrobiologii (zav.-
prof. S.I. Sherishorina).
(STAPHYLOCOCCUS) (PENICILLIN)

SHERISHORINA, S.I.; VOLYNSKIY, B.G.; MOROV, N.N.; FREYDMAN, S.L.; PONOMAREVA,
O.I.

Furacillin and levomycetin therapy for patients with cystitis.
Urologiia 26 no.2:27-32 '61. (MIRA 14:3)
(BLADDER-DISEASES) (OMYCETIN) (FURAN)

ANTONOV, A.M., prof., red.; VOL'FKOVICH, M.P., prof., red.;
ZAKHAROVA, G.N., dots., red.; IVANOV, N.R., dots., red.;
IOFFE, I.L., prof., red.; FOY, A.M., prof., red.;
SHAMARIN, P.I., prof., red.; SHERISHORINA, S.I., prof., red.

[Transactions of the First City Conference of Young Sci-
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molodykh nauchnykh rabotnikov. Meditsinskaia sektsiia. Saratov,
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Effect of levomycetin and some chemotherapeutic compounds on the
activity of dehydrogenases in dysentery bacilli. Antibiotiki 9 no.12:
1066-1070 D '64. (MIRA 18:7)

1. Kafedra mikrobiologii (zav. - prof. S.I.Sherishorina) Saratovskogo
meditsinskogo instituta.

ACC NR: AP6024449

SOURCE CODE: UR/0016/66/000/007/0140/0141

AUTHOR: Sherishorina, S. I.; Gasanova, Z. M.

ORG: Saratov Medical Institute (Saratovskiy meditsinskiy institut)

TITLE: The effect of furazolidone on the toxigenicity of pyrogenic staphylococcus

SOURCE: Zhurnal mikrobiologii, epidemiologii, i imunobiologii, no. 7, 1966, 140-141

TOPIC TAGS: staphylococcus, furazolidone, toxicology, infective disease, human ailment

ABSTRACT:

The effect of furazolidone on the toxic properties of antibiotic-resistant staphylococcus was investigated by determining the output of hemolytic, necrotic, and lethal toxins in staphylococcus under experimental and control conditions. Furazolidone was used in minimum (bactericidal for a 50 million/l ml concentration of microbial cells) and maximum (10 µg/l ml) doses. Following a three-hr incubation of staphylococcus in nutrient media with maximum and minimum furazolidone doses, the cultures were centri-

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UDC: 576.851.252.097:29:615.756.2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6

ACC NR: AP6024449

against infectious processes since it lowers necrotic,
lethal, and hemolytic toxin output in staphylococcus. [WA-50; CBE No. II]

SUB CODE: 06/ SUBM DATE: 21Oct65/

Card 3/3

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6"

SHERISHORINA, S.I.; SOLODOVA, T.L.

Variability of micro-organisms under the influence of antibiotics.
Report No. 1: Trudy Sar. gos. med. inst. 26:192-196 '59.
(MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra mikrobiologii (zav.-
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(STAPHYLOCOCCUS) (PENICILLIN)

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SHERKOV, Sherkov

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1. "Problems of Animal Veterinary (Veterinary Medicine);"
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 2. "How We Reduce Diseases and Mortality in Chickens to
a Minimum. Dr. BORIS V. GOLIKOV's Recommendation to the
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 4. "Instruction to the Department of Veterinary Medicine
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Russia, 7-9. September 1952"; pp. 1-14.
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 6. "Veterinary Quarantine and Measures of Protection against the
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"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6

MURKIN; RICHARD.

Comparative study of the pathogenicity of avian influenza in chicks caused by 12 isolates. (See also document #A125-153 '69)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549230001-6"